Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Project Division

MODIFIED ESTIMATE

Name of Work: PACKAGE No-03 Providing grill fencing and other developmental works at Sardara vallabai patel park, Sangolli rayanna park, Ambedkar park and Providing Gym & Children Play Equipments to Various Parks in Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
1	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material to the appropriate disposal area as per direction of Engineer-in-charge. (V-II, P.No.163, I.No.19.3 of PW, P&IWTD SR 2021-22)								
	Sardar Vallabhai Patel Park								
	Basket Ball Court		1	26.00	14.00	0.20	72.80		
		Cum					**72.80**	**2136.72**	**155553.02**
2	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material to the appropriate disposal area as per direction of Engineer-in-charge. In cement mortar (V-II, P.No.163, I.No.19.7.1 of PW, P&IWTD SR 2021-22)								
	Triangular Park								
	Demolish of Walls		0				0.00		
			0				0.00		
		Cum					**0.00**	**907.41**	**0.00**
3	Dismantling dressed stone work ashlar face stone work, marble work or precast concrete work manually/ by mechanical means including stacking of serviceable and disposal of unserviceable material to the appropriate disposal area as per direction of Engineer-in-charge. (V-II, P.No-164, I No-19.10.1 of PWD SR 2021-22)								
	1st Step								
	Kitturu Rani Chenamma Park		1	60.00	0.60	0.40	14.40		
	Krihnadevaraya Park		1	83.00	0.70	0.40	23.24		
	Sangolli Rayana Park		1	179.50	0.45	0.40	32.31		
	2nd Step								
	Kitturu Rani Chenamma Park		1	60.00	0.45	0.40	10.80		
	Krihnadevaraya Park		1	83.00	0.45	0.40	14.94		
	Sangolli Rayana Park		1	179.50	0.45	0.40	32.31		
		Cum					**127.80**	**880.73**	**112556.97**
4	Earth work excavation by **manual means for drains,canals,** waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.(V-I.No 1.4,Page No-5 of PWD SR 2021-22)								
	For SSM								
	Triangular Park		1	88.50	1.00	0.60	53.10		
	Sardar Vallabhai Patel Park		1	30.00	1.00	0.60	18.00		
	Gautam Budha Park		1	321.30	1.00	0.60	192.78		
	Panchakshari Gavaya Park		1	230.00	1.00	0.60	138.00		
	Subhash Chandra Bose Park		1	95.50	1.00	0.60	57.30		

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Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Da Ra Bendre Park								
	Ramanna Maharshi Park		1	270.50	1.00	0.60	162.30		
	In Front of Gate		1	57.50	1.00	0.60	34.50		
	Sangolli Rayana Park								
	Panchakshari Gavaya Park		1	5.00	3.00	0.20	3.00		
	Subhash Chandra Bose Park		2	6.50	4.00	0.20	10.40		
	Da Ra Bendre Park		1	5.50	3.00	0.20	3.30		
	Ramanna Maharshi Park		2	4.80	3.00	0.20	5.76		
	For Gym Platform		1	2.00	3.00	0.20	1.20		
			1	10.00	12.00	0.30	36.00		
			1	11.00	12.00	0.30	39.60		
			1	10.00	12.00	0.30	36.00		
			1	11.00	12.00	0.30	39.60		
	For Poles								
			105	0.45	0.45	0.45	9.57		
			20	0.45	0.45	0.45	1.82		
	For RWH in Parks								
			10	3.14*1.3*1.3		3.00	159.20		
	Sardar Vallabhai Patel Park								
	For Basket ball Court		1	28.00	15.00	0.12	50.40		
	For Basket ball poles		2	1.00	1.00	1.20	2.40		
	Benches in Parks of Ward No 3 & 4								
			70	1.80	2.50	0.30	94.50		
		Cum					**1148.73**	**214.07**	**245911.21**
5	Providing and laying reinforced cement concrete pipe NP3 for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets Clause 1101.6. 1200mm dia (V-3, P.No-134, I No-20.16 A of PWD SR 2021-22)								
	For RWH in Parks								
			10			3.00	30.00		
		Mtr					**30.00**	**9384.98**	**281549.33**
6	Providing and Filling in foundation with granite / trap broken metal 100mm and down size with approved M-Sand including hand packing, ramming, watering including cost of all materials and labour with all lead and lift complete as per specifications. (V-5, P.No-64, I No-9 A130A of PWD SR 2021-22)								
	For RWH in Parks								
			10	3.14*1.3*1.3		0.45	23.88		
		Cum					**23.88**	**1665.46**	**39770.79**
7	**Granular Aggregates**, 53mm downsize (V-1, P.No- A 38, I No-8 of PWD SR 2021-22)								
	For RWH in Parks								
	Inside Pit		10	3.14*1.3*1.3		0.45	23.88		
		Cum					**23.88**	**1437.47**	**34326.41**
8	**Granular Aggregates**, 40mm downsize (V-1, P.No- A 38, I No-7 of PWD SR 2021-22)								
	For RWH in Parks								
			10	3.14*1.3*1.3		0.45	23.88		
		Cum					**23.88**	**1437.47**	**34326.41**
9	**Granular Aggregates**, 20mm downsize (V-1, P.No- A 38, I No-4 of PWD SR 2021-22)								
	For RWH in Parks								
			10	3.14*1.3*1.3		0.45	23.88		

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No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
10	**Sand - M-Sand –Fine** (V-1, P.No- A 41, I No-71 of PWD SR 2021-22)	Cum					23.88	1552.56	37074.74
	For RWH in Parks								
	Inside Pit		10	3.14*1.3*1.3		0.30	15.92		
		Cum					**15.92**	**1711.11**	**27240.59**
11	Providing and laying in position **plain cement concrete** for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately)**Mix 1:3:6** (M10) Using 40 mm nominal size graded crushed coarse aggregates (V-1, P.No-15, I No-2.1.3 of PWD SR 2021-22)								
	For SSM								
	Triangular Park		1	88.50	0.90	0.15	11.95		
	Sardar Vallabhai Patel Park		1	30.00	0.90	0.15	4.05		
	Kitturu Rani Chenamma Park		1	60.00	0.90	0.15	8.10		
	Gautam Budha Park		1	321.30	0.90	0.15	43.38		
	Krishnadevaraya Park		1	83.00	0.90	0.15	11.21		
	Sangolli Rayana Park		1	179.50	0.90	0.15	24.23		
	Panchakshari Gavaya Park		1	230.00	0.90	0.15	31.05		
	Subhash Chandra Bose Park		1	95.50	0.90	0.15	12.89		
	Da Ra Bendre Park		1	270.50	0.90	0.15	36.52		
	Ramanna Maharshi Park		1	57.50	0.90	0.15	7.76		
	For Pathway								
	In Front of Gate								
	Sangolli Rayana Park		1	5.00	3.00	0.15	2.25		
	Panchakshari Gavaya Park		1	6.50	4.00	0.15	3.90		
	Subhash Chandra Bose Park		1	5.50	3.00	0.15	2.48		
	Da Ra Bendre Park		1	4.80	3.00	0.15	2.16		
	Ramanna Maharshi Park		1	5.60	3.00	0.15	2.52		
	Sent Sevalal Park		1	5.50	3.00	0.15	2.48		
	For Pathway								
	B M Srikantaiah park		1	232.50	3.00	0.15	104.63		
	Kitturu Rani Chenamma Park		1	352.50	3.70	0.15	195.64		
	Gautam Budha Park		1	416.20	2.70	0.15	168.56		
	Panchakshari Gavaya Park		1	206.50	2.55	0.15	78.99		
	Da Ra Bendre Park		1	288.50	2.70	0.15	116.84		
	For Gym Platform								
			1	10.00	12.00	0.15	18.00		
			1	11.00	12.00	0.15	19.80		
			1	10.00	12.00	0.15	18.00		
			1	11.00	12.00	0.15	19.80		
	Sardar Vallabhai Patel Park								
	Basket Ball Court		1	28.00	15.00	0.15	63.00		
	For Basket ball poles		2	1.00	1.00	0.15	0.30		
	Benches in Parks of Ward No 3 & 4								
			70	1.80	2.50	0.15	47.25		

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No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
		Cum					1057.72	6614.74	6996514.02
12	Stones Providing Size Stone masonry (Available Stones) with hard stone in Foundation & Plinth with Cement Mortar 1:6 (1 Cement : 6 Coarse Sand) (Arrived Rate)								
	50% of the Qty Vide Item No-1						103.00		
		Cum					103.00	4510.22	464553.08
	Arrived Rate	4314.20							
13	Providing Coursed rubble masonry (second sort) with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) (V-II, No-5.3, P.No-9 of PWD SR 2021-22)								
	Below Ground								
	1st Step								
	Triangular Park		1	88.50	0.75	0.30	19.91		
	Sardar Vallabhai Patel Park		1	30.00	0.75	0.25	5.63		
	Kitturu Rani Chenamma Park		1	60.00	0.75	0.25	11.25		
	Gautam Budha Park		1	321.30	0.75	0.25	60.24		
	Krishnadevaraya Park		1	83.00	0.75	0.25	15.56		
	Sangolli Rayana Park		1	179.50	0.75	0.25	33.66		
	Panchakshari Gavaya Park		1	230.00	0.75	0.25	43.13		
	Subhash Chandra Bose Park		1	95.50	0.75	0.30	21.49		
	Da Ra Bendre Park		1	270.50	0.75	0.30	60.86		
	Ramanna Maharshi Park		1	57.50	0.75	0.30	12.94		
	2nd Step								
	Triangular Park		1	88.50	0.60	0.50	26.55		
	Sardar Vallabhai Patel Park		1	30.00	0.60	0.50	9.00		
	Kitturu Rani Chenamma Park		1	60.00	0.60	0.50	18.00		
	Gautam Budha Park		1	321.30	0.60	0.50	96.39		
	Krishnadevaraya Park		1	83.00	0.60	0.50	24.90		
	Sangolli Rayana Park		1	179.50	0.60	0.50	53.85		
	Panchakshari Gavaya Park		1	230.00	0.60	0.50	69.00		
	Subhash Chandra Bose Park		1	95.50	0.60	0.50	28.65		
	Da Ra Bendre Park		1	270.50	0.60	0.50	81.15		
	Ramanna Maharshi Park		1	57.50	0.60	0.50	17.25		
							709.00		
	Deduct Available Stone Qty						**103.00**		
		Cum					**606.00**	**6055.81**	**3669834.79**
14	Providing Coursed rubble masonry (first sort) with hard stone in foundation and plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) (V-II, No-5.2, P.No-9 of PWD SR 2021-22)								
	Above Ground								
	1st Step								
	Triangular Park		1	88.50	0.45	0.50	19.91		
	Sardar Vallabhai Patel Park		1	30.00	0.45	0.50	6.75		
	Kitturu Rani Chenamma Park		1	60.00	0.45	0.50	13.50		
	Gautam Budha Park		1	321.30	0.45	0.50	72.29		
	Krishnadevaraya Park		1	83.00	0.45	0.45	16.81		
	Sangolli Rayana Park		1	179.50	0.45	0.45	36.35		
	Panchakshari Gavaya Park		1	230.00	0.45	0.45	46.58		
	Subhash Chandra Bose Park		1	95.50	0.45	0.50	21.49		

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	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Da Ra Bendre Park								
	Ramanna Maharshi Park		1	270.50	0.45	0.45	54.78		
			1	57.50	0.45	0.60	15.53		
		Cum					**303.18**	**6452.58**	**1956291.76**
15	Providing ruled pointing to cursed stone masonry with lime mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost all materials, labour, usage charges of machinery, curing complete as pre specification (V-II, P.No-190, I No-21.10 of PWD SR 2021-22)								
	Triangular Park		2	88.50		0.50	88.50		
	Sardar Vallabhai Patel Park		2	30.00		0.50	30.00		
	Kitturu Rani Chenamma Park		2	60.00		0.50	60.00		
	Gautam Budha Park		2	321.30		0.50	321.30		
	Krihnadevaraya Park		2	83.00		0.45	74.70		
	Sangolli Rayana Park		2	179.50		0.45	161.55		
	Panchakshari Gavaya Park		2	230.00		0.45	207.00		
	Subhash Chandra Bose Park		2	95.50		0.50	95.50		
	Da Ra Bendre Park		2	270.50		0.45	243.45		
	Ramanna Maharshi Park		2	57.50		0.60	69.00		
		Cum					**1123.48**	**273.70**	**307496.48**
16	Providing and laying in position Reinforced **cement concrete** for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) **Mix 1:2:4 (M15)** Using 20 mm nominal size graded crushed coarse aggregates (V-I, No-2.4.1, P.No-17 of PWD SR 2021-22).								
	Coping								
	Triangular Park		1	88.50	0.45	0.10	3.98		
	Sardar Vallabhai Patel Park		1	30.00	0.45	0.10	1.35		
	Kitturu Rani Chenamma Park		1	60.00	0.45	0.10	2.70		
	Gautam Budha Park		1	321.30	0.45	0.10	14.46		
	Krishnadevaraya Park		1	83.00	0.45	0.10	3.74		
	Sangolli Rayana Park		1	179.50	0.45	0.10	8.08		
	Panchakshari Garayya Park		1	230.00	0.45	0.10	10.35		
	Subhash Chandra Bose Park		1	95.50	0.45	0.10	4.30		
	Da Ra Bendre Park		1	270.50	0.45	0.10	12.17		
	Ramanna Maharshi Park		1	57.50	0.45	0.10	2.59		
	Below Kerb								
	B M Srikantaiah park		2	232.50	0.20	0.15	13.95		
	Kitturu Rani Chenamma Park		2	352.5	0.20	0.15	21.15		
	Gautam Budha Park		2	416.2	0.20	0.15	24.97		
	Panchakshari Gavaya Park		2	206.5	0.20	0.15	12.39		
	Da Ra Bendre Park		2	288.5	0.20	0.15	17.31		
	For Poles								
			260	0.45	0.45	0.50	26.33		
		Cum					**179.81**	**7010.63**	**1260567.36**

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No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
17	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. (V-3, P.No- 24, I No-4.27 of PWD SR 2021-22)								
		Cum					**0.00**	**2753.13**	**0.00**
18	Sand – River sand (V-1, P.No- A 40, I No-73 of PWD SR 2021-22)								
	For Children Play								
	Duo Marvel Park play area		1	8.50	11.50	0.35	34.21		
	Auttur lake Park play area		1	16.30	9.00	0.30	44.01		
	Panchakshari Park play area		1	8.00	10.50	0.30	25.20		
	Gouthama bhudha Park play area		1	13.20	15.50	0.35	71.61		
		Cum					**175.03**	**2028.61**	**355071.94**
19	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates.(V-I, P.No.17, I.No.2.4.2 of PW, P&IWTD SR 2021-22)								
	For Basket ball poles		0	0.90	0.90	1.00	0.00		
		Cum					**0.00**	**7194.40**	**0.00**
20	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates.(V-I, P.No.17, I.No.2.4.3 of PW, P&IWTD SR 2021-22)								
	Sardar Vallabhai Patel Park								
	Basket Ball Court		1	15.30	27.00	0.20	82.62		
		Cum					**82.62**	**7243.28**	**598439.38**
21	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.(V-III, P.No.99, I.No.13.1 of PW, P&IWTD SR 2021-22) Issuse Rate dated :07/04/2022								
	Sardar Vallabhai Patel Park								
	Basket Ball Court (Consider 8kg/sqm)		1	82.62	25.00		2065.50		
	Consider 100 Kg per Cum for basket ball poles		1	0.00	100.00		0.00		
							2065.50		
		Tonne					**2.07**	**118826.37**	**245435.86**

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Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
22	**Fabricating, providing and erecting in position of MS Hot Dip Galvanised** Sq. Hallow Poles of 132 X 132 Heavy gauge of length 3000mm with MS. Hot dip Galvanised grill work as per approved design and drawing of chief architect. Using 12 X 75mm galvanised flat for alround frame and 20 X 20mm galvanised forged design with square for vertical at 150mm c/c as shown in the drawing including providing forged ornamental arrowhead at top and bottom. The work is inclusive of throughing flat, square rods, placing welding all the joints, including grinding, finishing 2 coats of anticorrosive paint over one coat of metal primer. The rate is inclusive of all materials like MS. Hollow galvanized pipe, flats, forged square rods, cost of labour for all items of work cost painting, welding, cutting, grinding with all lead and lift as per specification including loading and unloading with cost and conveyance of all materials, labour, machinery andincidental charges for the successful completion of the work as per the direction of the Engineer-in-charge of the work. (Data Rate)								
	Triangular Park		1	88.50		2.25	199.13		
	Gautam Budha Park		1	321.30		2.25	722.93		
	Krishnadevaraya Park		1	83.00		2.25	186.75		
	Sangolli Rayana Park		1	179.50		2.25	403.88		
	Panchakshari Gavayya Park		1	230.00		2.25	517.50		
	Subhash Chandra Bose Park		1	95.50		2.25	214.88		
	Da Ra Bendre Park		1	270.50		2.25	608.63		
	Ramanna Maharshi Park		1	57.50		2.25	129.38		
		Sqm					**2992.32**	**16340.18**	**48895057.14**
23	**Fabricating, providing and erecting in position Hot dip galvanised Gate.** Using 72 X 72 X 4.8mm Sq. GI Pipe Frame with Top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drawing profile, 20mm hot dip galvanised sq. rod for verticals at 150mm c/c, as shown in the drawing including providing hot dip galvanised forged ornamental design in between sq. rods and heads at top, middle and bottom. Intermediate supports of 75X12 mm and 50X6 mm arch bend to hot dip galvanised flats. The work is inclusive of throughing GI flat GI sq. rods, placing, welding all the joints including grinding, finishing metal putty, painting two coats enamel painting. The rate is inclusive of all materials like GI sq. pipe, GI sq. rods, GI forged designs etc., heavy duty hinges are made out of 75mm solid sq. block assembled with 20mm dia bearing in three places for each flop. Heavy Duty Locking arrangements at tow places including cost of labour, painting, erecting charges using hoist pulley cranes with all lead and lift, loading, transportation, unloading, scaffolding charges and all other incidental charges for successful completion of the work as per directions of the Engineer-in-charge of the work. (Data Rate)								
	Triangular Park		1	3.00		2.40	7.20		
	Sardar Vallabhai Patel Park		4	3.00		2.30	27.60		
			2	5.00		2.30	23.00		
	Kitturu Rani Chenamma Park		4	3.00		2.40	28.80		
			1	2.00		2.40	4.80		
			1	4.50		2.40	10.80		
			1	5.00		2.40	12.00		
	Gautam Budha Park		2	4.00		2.35	18.80		
	Krishnadevaraya Park		1	3.00		2.25	6.75		
	Sangolli Rayana Park		1	3.00		2.25	6.75		
	Panchakshari Gavaya Park		1	4.00		2.25	9.00		
	Subhash Chandra Bose Park		1	3.00		2.20	6.60		
	Da Ra Bendre Park		1	3.00		2.20	6.60		
	Ramanna Maharshi Park		1	3.00		2.20	6.60		
		Sqm					**175.30**	**22319.75**	**3912651.52**
24	Removing and Resetting of Kerb Stones								

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Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	For Pathway								
	B M Srikantaiah park		2	232.50			465.00		
	Kitturu Rani Chenamma Park		2	352.50			705.00		
	Gautam Budha Park		2	416.20			832.40		
	Panchakshari Gavaya Park		2	206.50			413.00		
	Da Ra Bendre Park		2	288.50			577.00		
		Rmtr					**2992.40**		
	Deduct Missing/Damaged kerb 70%						**2094.68**		
							740.00	**135.87**	**100545.65**
25	Removing & Resetting of Cobble Stones								
	For Pathway						697.50		
	B M Srikantaiah park		1	232.50	3.00		0.00		
			1	0.00	3.00		1304.25		
	Kitturu Rani Chenamma Park		1	352.50	3.70		1123.74		
	Gautam Budha Park		1	416.20	2.70		526.58		
	Panchakshari Gavaya Park		1	206.50	2.55		778.95		
	Da Ra Bendre Park		1	288.50	2.70				
							4431.02		
		Sqm							
	Deduct Missing/Damaged Cobble stone 30%						**840.00**		
							840.00	**436.94**	**367031.70**
26	Providing and fixing pre cast solid cement concrete kerb stones made out of M20 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete as directed by the Engineer in Charge of the work (Data Rate)								
	For Kerb						465.00		
	B M Srikantaiah park		2	232.50			705.00		
	Kitturu Rani Chenamma Park		2	352.50			832.40		
	Gautam Budha Park		2	416.20			413.00		
	Panchakshari Gavaya Park		2	206.50			577.00		
	Da Ra Bendre Park		2	288.50			**2992.40**		
							-740.00		
	Deduct Resetting of Kerb Qty						**2252.40**		
	For Gym Platform								
			2	24.00			48.00		
			2	26.00			52.00		
			2	24.00			48.00		
			2	25.00			50.00		
	For Children Play								
			2	25.00			50.00		
			2	24.00			48.00		
			2	26.00			52.00		
	Benches in Parks of Ward No 3 & 4								

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Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
			70	7.00			490.00		
							3090.40		3403525.26
		Nos					6420.56	530.10	
27	**Painting two coats** after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces (P.No.56, I.No.8.10 of PW, P&IWTD SR 2021-22)								
	For Kerb								
	B M Srikantaiah park		2	232.50		0.35	162.75		
	Kitturu Rani Chenamma Park		2	352.50		0.35	246.75		
	Gautam Budha Park		2	416.20		0.35	291.34		
	Panchakshari Gavaya Park		2	206.50		0.35	144.55		
	Da Ra Bendre Park		2	288.50		0.35	201.95		
	For Gym Platform								
			2	24.00		0.35	16.80		
			2	26.00		0.35	18.20		
			2	24.00		0.35	16.80		
			2	25.00		0.35	17.50		
	For Children Play								
			2	25.00		0.35	17.50		
			2	24.00		0.35	16.80		
			2	26.00		0.35	18.20		
	Sardar Vallabhai Patel Park								
	Basket Ball Court		1	28.00	15.00		420.00		
	Benches in Parks of Ward No 3 & 4								
			70	7.00		0.35	171.50		
		Sqm					1242.71	97.75	121474.90
28	Providing and laying **heavy duty cobble stones 60mm thick** interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per m2 over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level , including cost of materials, labour and Usage charges of machinery complete as per specifications.(V-II, P.No.64, I.No.9.31of PW, P&IWTD SR 2021-22)								
	For Pathway								
	B M Srikantaiah park		1	232.50	2.50		581.25		
	Kitturu Rani Chenamma Park		1	352.50	2.30		810.75		
	Gautam Budha Park		1	416.20	2.20		915.64		
	Panchakshari Gavaya Park		1	206.50	2.55		526.58		
	Da Ra Bendre Park		1	288.50	2.70		778.95		
							3613.17		
	Deduct Resetting Cobble Qty						-840.00		
		Sqm					2915.61	1250.12	3644878.31
29	Providing, laying & fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, mortar, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification. (V-II, P.No.65, I.No.9.40 of PW, P&IWTD SR 2021-22)								
	For Gym Platform								

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Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Auttur lake Gym area		1	7.30	8.60		62.78		
	Yelahanka lake Gym area -1		1	6.70	12.35		82.75		
	Yelahanka lake Gym area -2		1	6.10	12.80		78.08		
	Kitturu rani Channamma park Gym area		1	5.10	11.60		59.16		
	Benches in Parks of Ward No 3 & 4								
			70	1.40	2.20		215.60		
		Sqm					**491.78**	**1309.85**	**644163.27**
30	**Executive Bench- Made out of Sadarahalli grey stone** with hand supports with 3 line finishing with arch design with 100mm slabs. Height 90x Length 1500 width 45 cms (Data approved rate)								
	Benches in Parks of Ward No 3 & 4								
			70				70.00		
		Each					**70.00**	**19027.04**	**1331892.63**
31	**Basket ball poles with board** inclusive of all taxes and transportation charges as per the direction of Engineer in Charge (Data approved rate)								
			2				2.00		
		Each					**2.00**	**914757.21**	**1829514.42**
	Gym Equipments								
32	Supply and Fixing of Arm and Pedal Bike: All products must test and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of the supplier by themselves or through their authorized dealers or contractors. The suppliers products must have been installed in at least 200 public parks across India the list of which to be submitted during the technical bid. Any five parks will be randomly selected by the tendering authority or a third party appointed by it to check and ascertain the product GS Marks, safety, quality and durability at site, the evaluation report to have photographs of the installed products taken at site showing the GS mark and the condition of the equipment, based upon which the tender shall be evaluated. The EN16630 & GS Mark certificates must be submitted during the technical bid and the same must reflect clearly on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Horizontal Structural post of length 1.10 m supporting Upright structural posts of height 1.23 m and Dia 60mm is to be schedule HOT DIP Galvanized steel with a 114mm O.D. and 2.2mm (wall) thickness of the tubing. Pedals of size 108 mm & Bars of size 197 mm. The poles are welded on to a base plate made from steel with 114mm inner diameter. Bearings: Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. The limiters must be in accordance with EN16630 safety norms. Scope of delivery: 1 completely pre- assembled equipment modules. Maintenance: Maintain according to EN16630 and the maintenance guide. The rates are inclusive of all taxes, transportation charges and installation. EQUIPMENT DIMENSIONS: 1.43 m x 0.65 m x 1.23 m User capacity: 1 Person								
			3				3.00		
		Each					**3.00**	**299909.71**	**899729.12**

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Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
33	Supply and Fixing of Bicycle: All products must test and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of the supplier by themselves or through their authorized dealers or contractors. The suppliers products must have been installed in at least 200 public parks across India the list of which to be submitted during the technical bid. Any five parks will be randomly selected by the tendering authority or a third party appointed by it to check and ascertain the product GS Marks, safety, quality and durability at site, the evaluation report to have photographs of the installed products taken at site showing the GS mark and the condition of the equipment, based upon which the tender shall be evaluated. The EN16630 & GS Mark certificates must be submitted during the technical bid and the same must reflect clearly on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Upright structural posts of height 1.31 m is to be schedule HOT DIP Galvanized steel with a 60 mm O.D. and 2.2mm (wall) thickness of the tubing. Two numbers of Pedal of size 113mm x 40mm & Rotating Disc of Dia 380 mm fabricated from 40 O.D. galvanized steel pipes. The poles are welded on to a base plate made from steel with 114mm inner diameter. Welded. Bearings: Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. The limiters must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre- assembled equipment modules. Maintenance: Maintain according to EN16630 and the maintenance guide. The rates are inclusive of all taxes, transportation charges and installation. EQUIPMENT DIMENSIONS: 1.11m x 0.51 m x 1.31 m User capacity: 1 Person								
							3.00		
		3					**3.00**	**220523.02**	**661569.07**
		Each							
34	Supply and Fixing of Big Shoulder Wheel: All products must test and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of the supplier by themselves or through their authorized dealers or contractors. The suppliers products must have been installed in at least 200 public parks across India the list of which to be submitted during the technical bid. Any five parks will be randomly selected by the tendering authority or a third party appointed by it to check and ascertain the product GS Marks, safety, quality and durability at site, the evaluation report to have photographs of the installed products taken at site showing the GS mark and the condition of the equipment, based upon which the tender shall be evaluated. The EN16630 & GS Mark certificates must be submitted during the technical bid and the same must reflect clearly on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Upright structural posts of height 1.47 m is to be schedule HOT DIP Galvanized steel with a 114mm O.D. and 2.2mm (wall) thickness of the tubing. Circular Handrail of Dia 0.69 m and Dia 42 mm fabricated from 42 O.D. galvanized steel pipes. The poles are welded on to a base plate made from steel with 114mm inner diameter. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. The limiters must be in accordance with EN16630 safety norms. Scope of delivery: 1 completely pre- assembled equipment modules. Maintenance: Maintain according to EN16630 and the maintenance guide. The rates are inclusive of all taxes, transportation charges and installation. EQUIPMENT DIMENSIONS: 0.69 m x 0.61 m x 1.94 m User capacity: 2 People								
			2				2.00		
		Each					**2.00**	**211701.09**	**423402.17**

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Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
35	Supply and Fixing of Elliptical Cross Trainer: All products must test and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of the supplier by themselves or through their authorized dealers or contractors. The suppliers products must have been installed in at least 200 public parks across India the list of which to be submitted during the technical bid. Any five parks will be randomly selected by the tendering authority or a third party appointed by it to check and ascertain the product GS Marks, safety, quality and durability at site, the evaluation report to have photographs of the installed products taken at site showing the GS mark and the condition of the equipment, based upon which the tender shall be evaluated. The EN16630 & GS Mark certificates must be submitted during the technical bid and the same must reflect clearly on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Upright structural posts of height 1.25 m is to be schedule HOT DIP Galvanized steel with a 114mm O.D. and 2.2mm (wall) thickness of the tubing. Two numbers of Foot rest of size 320 mm x 132 mm are attached to the Standing Bars 998 mm x 40 mm fabricated from 40 O.D. galvanized steel pipes. Lower part of Support Handrails of size 0.8 m high and Dia 47 mm and Upper part of Support Handrails of size 0.51 m high and Dia 32 mm fabricated from 47 mm O.D. and 32 mm O.D. galvanized steel pipes. The poles are welded on to a base plate made from steel with 114mm inner diameter. Bearings: Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. The limiters must be in accordance with EN16630 safety norms. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance: Maintain according to EN16630 and the maintenance guide. The rates are inclusive of all taxes, transportation charges and installation. EQUIPMENT DIMENSIONS: 1.02 m x 0.53 m x 1.52 mUser capacity: 1 Person								
			3				3.00		
		Each					**3.00**	**246983.95**	**740951.84**
36	Supply and Fixing of Leg Stretch: All products must test and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of the supplier by themselves or through their authorized dealers or contractors. The suppliers products must have been installed in at least 200 public parks across India the list of which to be submitted during the technical bid. Any five parks will be randomly selected by the tendering authority or a third party appointed by it to check and ascertain the product GS Marks, safety, quality and durability at site, the evaluation report to have photographs of the installed products taken at site showing the GS mark and the condition of the equipment, based upon which the tender shall be evaluated. The EN16630 & GS Mark certificates must be submitted during the technical bid and the same must reflect clearly on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Upright structural posts of height 1.10 m is to be schedule HOT DIP Galvanized steel with a 114mm O.D. and 2.2mm (wall) thickness of the tubing. Handrail rails of Dia 32 m. The poles are welded on to a base plate made from steel with 114mm inner diameter. Welded. Bearings: Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. The limiters must be in accordance with EN16630 safety norms. Scope of delivery: 1 completely pre- assembled equipment modules. Maintenance: Maintain according to EN16630 and the maintenance guide. The rates are inclusive of all taxes, transportation charges and installation. EQUIPMENT DIMENSIONS: 0.93 m x 0.81 m x 1.13 m User capacity: 3 People								
			3				3.00		
		Each					**3.00**	**68873.67**	**206621.02**

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Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
37	Supply and Fixing of Pull Down Challenger: All products must test and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of the supplier by themselves or through their authorized dealers or contractors. The suppliers products must have been installed in at least 200 public parks across India the list of which to be submitted during the technical bid. Any five parks will be randomly selected by the tendering authority or a third party appointed by it to check and ascertain the product GS Marks, safety, quality and durability at site, the evaluation report to have photographs of the installed products taken at site showing the GS mark and the condition of the equipment, based upon which the tender shall be evaluated. The EN16630 & GS Mark certificates must be submitted during the technical bid and the same must reflect clearly on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Upright structural posts of height 1.88 m is to be schedule HOT DIP Galvanized steel with a 114mm O.D. and 2.2mm (wall) thickness of the tubing. Two pair of U-Shaped Pull down Bars 806 mm x 700 mm and Dia 40 mm are spaced at 630 mm fabricated from 40 O.D. galvanized steel pipes. The poles are welded on to a base plate made from steel with 114mm inner diameter. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. The limiters must be in accordance with EN16630 safety norms. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance: Maintain according to EN16630 and the maintenance guide. The rates are inclusive of all taxes, transportation charges and installation. EQUIPMENT DIMENSIONS: 2.30 m x 0.70 m x 1.88 m User capacity: 2 People								
							3.00		
		Each	3				**3.00**	**417756.62**	**1253269.86**
38	Supply and Fixing of Seated Chest Press: All products must test and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of the supplier by themselves or through their authorized dealers or contractors. The suppliers products must have been installed in at least 200 public parks across India the list of which to be submitted during the technical bid. Any five parks will be randomly selected by the tendering authority or a third party appointed by it to check and ascertain the product GS Marks, safety, quality and durability at site, the evaluation report to have photographs of the installed products taken at site showing the GS mark and the condition of the equipment, based upon which the tender shall be evaluated. The EN16630 & GS Mark certificates must be submitted during the technical bid and the same must reflect clearly on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Upright structural posts of height 1.88 m is to be schedule HOT DIP Galvanized steel with a 114mm O.D. and 2.2mm (wall) thickness of the tubing. Two pair of U-Shaped Bars of 1.02 m and Dia 40 mm while the handles are placed at a spacing of 698 mm fabricated from 40 O.D. galvanized steel pipes. The poles are welded on to a base plate made from steel with 114mm inner diameter. Bearings: Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. The limiters must be in accordance with EN16630 safety norms. Scope of delivery: 1 completely pre- assembled equipment modules. Maintenance: Maintain according to EN16630 and the maintenance guide. The rates are inclusive of all taxes, transportation charges and installation. EQUIPMENT DIMENSIONS: 1.82 m x 0.69 m x 1.88 m User capacity: 2 People								
							3.00		
		Each	3				**3.00**	**405760.25**	**1217280.75**

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Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
39	Supply and Fixing of Rider: All products must test and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of the supplier by themselves or through their authorized dealers or contractors. The suppliers products must have been installed in at least 200 public parks across India the list of which to be submitted during the technical bid. Any five parks will be randomly selected by the tendering authority or a third party appointed by it to check and ascertain the product GS Marks, safety, quality and durability at site, the evaluation report to have photographs of the installed products taken at site showing the GS mark and the condition of the equipment, based upon which the tender shall be evaluated. The EN16630 & GS Mark certificates must be submitted during the technical bid and the same must reflect clearly on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Upright structural posts of height 0.5 m is to be schedule HOT DIP Galvanized steel with a 114mm O.D. and 2.2mm (wall) thickness of the tubing. A single seat of size 330 mm x 250 mm fixed to the top of the vertical post and two Pedals & Bars of size 145 mm x 50 mm and Dia 38 mm fabricated from 40 O.D. galvanized steel pipes. The poles are welded on to a base plate made from steel with 114mm inner diameter. Bearings: Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. The limiters must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre- assembled equipment modules. Maintenance: Maintain according to EN16630 and the maintenance guide. The rates are inclusive of all taxes, transportation charges and installation. EQUIPMENT DIMENSIONS: 0.91 m x 0.65 m x 1.27 m User capacity: 1 Person								
							2.00		
		Each	2				**2.00**	**158775.81**	**317551.63**
40	Supply and Fixing of Self Weighted Rower: All products must test and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of the supplier by themselves or through their authorized dealers or contractors. The suppliers products must have been installed in at least 200 public parks across India the list of which to be submitted during the technical bid. Any five parks will be randomly selected by the tendering authority or a third party appointed by it to check and ascertain the product GS Marks, safety, quality and durability at site, the evaluation report to have photographs of the installed products taken at site showing the GS mark and the condition of the equipment, based upon which the tender shall be evaluated. The EN16630 & GS Mark certificates must be submitted during the technical bid and the same must reflect clearly on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Horizontal bars of length 1.26 m is to be schedule HOT DIP Galvanized steel with a 60mm O.D. and 2.2mm (wall) thickness of the tubing. Handle Bars of 0.74 m and Dia 38 mm fabricated from 40 O.D. galvanized steel pipes. The poles are welded on to a base plate made from steel with 114mm inner diameter. Bearings: Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. The limiters must be in accordance with EN16630 safety norms. Scope of delivery: 1 completely pre- assembled equipment modules. Maintenance: Maintain according to EN16630 and the maintenance guide. The rates are inclusive of all taxes, transportation charges and installation. EQUIPMENT DIMENSIONS: 1.26 m x 0.80 m x 1.59 m User capacity: 1 Person								
							2.00		
		Each	2				**2.00**	**291089.73**	**582179.45**

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Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
41	Supply and Fixing of Tai Chi Spinners: All products must test and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of the supplier by themselves or through their authorized dealers or contractors. The suppliers products must have been installed in at least 200 public parks across India the list of which to be submitted during the technical bid. Any five parks will be randomly selected by the tendering authority or a third party appointed by it to check and ascertain the product GS Marks, safety, quality and durability at site, the evaluation report to have photographs of the installed products taken at site showing the GS mark and the condition of the equipment, based upon which the tender shall be evaluated. The EN16630 & GS Mark certificates must be submitted during the technical bid and the same must reflect clearly on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Upright structural posts of height 1.15 m is to be schedule HOT DIP Galvanized steel with a 114mm O.D. and 2.2mm (wall) thickness of the tubing. Circular Handrail of Dia 477 mm made with the pipe Dia of 32 mm fabricated from 32 O.D. galvanized steel pipes. The poles are welded on to a base plate made from steel with 114mm inner diameter. Bearings: Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. The limiters must be in accordance with EN16630 safety norms. Scope of delivery: 1 completely pre- assembled equipment modules. Maintenance: Maintain according to EN16630 and the maintenance guide. The rates are inclusive of all taxes, transportation charges and installation. EQUIPMENT DIMENSIONS: 1.25 m x 1.09 m x 1.49 m User capacity: 2 People								
			2				2.00		
		Each					**2.00**	**202880.13**	**405760.25**
42	Supply and Fixing of Sit Up Station: All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of the supplier by themselves or through their authorized dealers or contractors. The suppliers products must have been installed in at least 200 public parks across India the list of which to be submitted during the technical bid. Any five parks will be randomly selected by the tendering authority or a third party appointed by it to check and ascertain the product GS Marks, safety, quality and durability at site, the evaluation report to have photographs of the installed products taken at site showing the GS mark and the condition of the equipment, based upon which the tender shall be evaluated. The EN16630 & GS Mark certificates must be submitted during the technical bid and the same must reflect clearly on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Upright structural posts of height 0.63 m is to be schedule HOT DIP Galvanized steel with a 114mm O.D. and 2.2mm (wall) thickness of the tubing. Two J shaped Bars of 1.07 m and Dia 48 mm. The poles are welded on to a base plate made from steel with 114mm inner diameter. Bearings: Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. The limiters must be in accordance with EN16630 safety norms. Scope of delivery: 1 completely pre- assembled equipment modules. Maintenance: Maintain according to EN16630 and the maintenance guide. The rates are inclusive of all taxes, transportation charges and installation. EQUIPMENT DIMENSIONS: 1.48 m x 1.21 m x 0.63 m User capacity: 2 People								
			2				2.00		
		Each					**2.00**	**220522.05**	**441044.09**

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	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
43	Supply and Fixing of Squat Pushing: All products must test and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of the supplier by themselves or through their authorized dealers or contractors. The suppliers products must have been installed in at least 200 public parks across India the list of which to be submitted during the technical bid. Any five parks will be randomly selected by the tendering authority or a third party appointed by it to check and ascertain the product GS Marks, safety, quality and durability at site, the evaluation report to have photographs of the installed products taken at site showing the GS mark and the condition of the equipment, based upon which the tender shall be evaluated. The EN16630 & GS Mark certificates must be submitted during the technical bid and the same must reflect clearly on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Vertical bars height of 1.70 m is to be schedule HOT DIP Galvanized steel with a 114mm O.D. and 2.2mm (wall) thickness of the tubing. L shaped bars of 960 mm x 600 mm carrying two seats of 0.34 m x 0.34 m fabricated from 40 O.D. galvanized steel pipes. The poles are welded on to a base plate made from steel with 114mm inner diameter. Bearings: Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. The limiters must be in accordance with EN16630 safety norms. Scope of delivery: 1 completely pre- assembled equipment modules. Maintenance: Maintain according to EN16630 and the maintenance guide. The rates are inclusive of all taxes, transportation charges and installation. EQUIPMENT DIMENSIONS: 1.93 m x 0.56 m x 1.70 m User capacity: 2 People								
			2				2.00		
		Each					**2.00**	**379297.37**	**758594.74**
44	Supply and Fixing of Double Health Walker: All products must test and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of the supplier by themselves or through their authorized dealers or contractors. The suppliers products must have been installed in at least 200 public parks across India the list of which to be submitted during the technical bid. Any five parks will be randomly selected by the tendering authority or a third party appointed by it to check and ascertain the product GS Marks, safety, quality and durability at site, the evaluation report to have photographs of the installed products taken at site showing the GS mark and the condition of the equipment, based upon which the tender shall be evaluated. The EN16630 & GS Mark certificates must be submitted during the technical bid and the same must reflect clearly on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Upright structural posts of height 1.25 m is to be schedule HOT DIP Galvanized steel with a 114mm O.D. and 2.2mm (wall) thickness of the tubing. The Standing Bars of size 0.975 m and Dia 60 mm and the Handrail of size 1.93 m x 0.41 m and Dia 38 mm fabricated from 60 O.D. galvanized steel pipes. The poles are welded on to a base plate made from steel with 114mm inner diameter. An Internal limiter prevents the equipment from moving uncontrollably. Bearings: Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. The limiters must be in accordance with EN16630 safety norms. Scope of delivery: 1 completely pre- assembled equipment modules. Maintenance: Maintain according to EN16630 and the maintenance guide. The rates are inclusive of all taxes, transportation charges and installation. EQUIPMENT DIMENSIONS: 2.13 m x 0.55 m x 1.25 m User capacity: 2 People								
			3				3.00		
		Each					**3.00**	**417756.13**	**1253268.39**

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	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
45	Supply and Fixing of Mini Ski: All products must test and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of the supplier by themselves or through their authorized dealers or contractors. The suppliers products must have been installed in at least 200 public parks across India the list of which to be submitted during the technical bid. Any five parks will be randomly selected by the tendering authority or a third party appointed by it to check and ascertain the product GS Marks, safety, quality and durability at site, the evaluation report to have photographs of the installed products taken at site showing the GS mark and the condition of the equipment, based upon which the tender shall be evaluated. The EN16630 & GS Mark certificates must be submitted during the technical bid and the same must reflect clearly on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Upright structural posts of height 1.40 m is to be schedule HOT DIP Galvanized steel with a 114mm O.D. and 2.2mm (wall) thickness of the tubing. The Standing Bars 991 mm and Dia 60 mm fabricated from 40 O.D. galvanized steel pipes Upper part of Support Handrails of size 1.04 m high and Dia 38 mm fabricated from 40mm O.D. and 32 mm O.D. galvanized steel pipes. The poles are welded on to a base plate made from steel with 114mm inner diameter. An Internal limiter prevents the equipment from moving uncontrollably. Bearings: Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. The limiters must be in accordance with EN16630 safety norms. Scope of delivery: 1 completely pre- assembled equipment modules. Maintenance: Maintain according to EN16630 and the maintenance guide. The rates are inclusive of all taxes, transportation charges and installation.EQUIPMENT DIMENSIONS: 1.07 m x 0.78 m x 1.40 m User capacity: 2 People								
			3				3.00		
		Each					**3.00**	**280998.02**	**842994.05**
46	Supply and Fixing of Waist Twister: All products must test and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of the supplier by themselves or through their authorized dealers or contractors. The suppliers products must have been installed in at least 200 public parks across India the list of which to be submitted during the technical bid. Any five parks will be randomly selected by the tendering authority or a third party appointed by it to check and ascertain the product GS Marks, safety, quality and durability at site, the evaluation report to have photographs of the installed products taken at site showing the GS mark and the condition of the equipment, based upon which the tender shall be evaluated. The EN16630 & GS Mark certificates must be submitted during the technical bid and the same must reflect clearly on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Upright structural posts of height 1.35 m is to be schedule HOT DIP Galvanized steel with a 114mm O.D. and 2.2mm (wall) thickness of the tubing. Circular Handrail Dia 42 mm fabricated from 42 O.D. galvanized steel pipes. The poles are welded on to a base plate made from steel with 114mm inner diameter. An Internal limiter prevents the equipment from moving uncontrollably. Bearings: Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. The limiters must be in accordance with EN16630 safety norms. Scope of delivery: 1 completely pre- assembled equipment modules. Maintenance: Maintain according to EN16630 and the maintenance guide. The rates are inclusive of all taxes, transportation charges and installation. Equipment Dimensions: 1.44 m x 1.29 m x 1.35 m User capacity: 3 People								
			3				3.00		
		Each					**3.00**	**229343.01**	**688029.02**
	Children Play Equipments								

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	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
47	Supply and Fixing of Maxima N Swing: All products must be tested and certified to meet EN 1176 safety standards. The EN 1176 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The EN 1176 certificates must be in the name of a supplier who has carried out in excess of at least 100 public park projects in India either by themselves or through their dealers or contractors. These EN 1176 certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. Inverted U shaped structural posts of height 2.31 m are to be schedule HOT DIP Galvanized steel with a 114mm OD and 2.2mm (wall) thickness of the tubing. Toprail at height 2.31 m and Dia 114 mm shall be an all-robotic welded unit, fabricated from 114 O.D. Plastic Components such as swing seats [super thick plastic] shall be animated and shall be rotationally molded from antistatic, copolymer, virgin linear low density UV stabilized polyethylene, with color molded in and minimum thickness of 6 - 8mm. The rates are inclusive of all taxes, transportation charges and installation. PLAY EQUIPMENT DIMENSIONS: 3.67 m x 1.39 m x 2.31 m								
			2				2.00		693471.74
		Each					**2.00**	**346735.87**	
48	Supply and Fixing of Fiero A Swing: All products must be tested and certified to meet EN 1176 safety standards. The EN 1176 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The EN 1176 certificates must be in the name of a supplier who has carried out in excess of at least 100 public park projects in India either by themselves or through their dealers or contractors. These EN 1176 certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. Shaped structural posts of height 2.31 m are to be schedule HOT DIP Galvanized steel with a 114mm OD and 2.2mm (wall) thickness of the tubing. Plastic Components such as swing seats [super thick plastic] shall be animated and shall be rotationally molded from antistatic, copolymer, virgin linear low density UV stabilized polyethylene, with color molded in and minimum thickness of 6 - 8mm. The rates are inclusive of all taxes, transportation charges and installation. PLAY EQUIPMENT DIMENSIONS: 3.21 m x 1.54 m x 2.50 m								
			2				2.00		500619.78
		Each					**2.00**	**250309.89**	
49	Supply and Fixing of 4 Seater See Saw: All products must be tested and certified to meet EN 1176 safety standards. The EN 1176 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The EN 1176 certificates must be in the name of a supplier who has carried out in excess of at least 100 public park projects in India either by themselves or through their dealers or contractors. These EN 1176 certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. The See Saw consists of 2 poles of Dia 114mm and thickness of 2.5mm which balances the horizontal rod at the center which is of size 3110 mm length and Dia 114 mm. It consists of 4 seats which is made of LLDPE virgin plastic of size 305mm X 213 mm X 125 mm. PLAY EQUIPMENT DIMENSIONS: 3.10 m x 0.44 m x 0.80 m								
			2				2.00		428733.46
		Each					**2.00**	**214366.73**	
50	Supply and Fixing of 2 Seater See Saw: All products must be tested and certified to meet EN 1176 safety standards. The EN 1176 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The EN 1176 certificates must be in the name of a supplier who has carried out in excess of at least 100 public park projects in India either by themselves or through their dealers or contractors. These EN 1176 certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. The See Saw consists of 2 poles of Dia 114mm and thickness of 2.5mm which balances the horizontal rod at the center which is of size 3110 mm length and Dia 114 mm. It consists of 2 seats which is made of LLDPE virgin plastic of size 305mm X 213 mm X 125 mm. The rates are inclusive of all taxes, transportation charges and installation. PLAY EQUIPMENT DIMENSIONS: 3.11 m x 0.44 m x 0.66 m								
			2				2.00		325292.45
		Each					**2.00**	**162646.23**	

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	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
51	Supply and fixing of children Multi Play Equipment SCARBROUGH (KPS-1434-E-PVC) with curved slide and number panel. The equipment comprises of 2 numbers of Upright structural posts of height 2.4 m, 2 numbers of Upright structural posts of height 2.7 m, 2 numbers of Upright structural posts of height 3.3 m and 4 numbers of Upright structural posts of height 3.9 m are to be schedule HOT DIP Galvanized steel with a 114mm OD and 2.2mm thickness of the tubing. 6 numbers of Deck of size 1.14 x 1.14 m and Staircase of size 1.5m x 0.77 m are fabricated from 2mm perforated solid punched steel. Decks are pre pressed, punched, and welded, powder coated to 2.2mm thickness or vinyl plastic coated to a thickness of 4mm. Handrail of height 2.2 m and Dia 32 mm. Top rails of Monkey loop of size 1.8 m x 1.3 m. Sun Roof of size Dia 2 m and height 0.82 m, Spiral Slide of size 1.16 m x 1.6 m x 3.6 m, L - Curved Slide of size 1.94 m x 1.85 m x 2.4 m, Panels with color molded in and minimum thickness of 6 - 8mm. The supplier must have carried out in excess of at least 100 public park projects in India either by themselves or through their dealers or contractors. The rates are inclusive of all taxes, transportation charges and installation. ALL COMPONENTS MEET WITH EN-1176 SAFETY STANDARDS. PLAY EQUIPMENT DIMENSIONS: 6.65 m x 5.31 m x 4.8 m.								
			2				2.00		8619157.08
		Each					**2.00**	**4309578.54**	
52	Supply and fixing of children Multi Play Equipment BRIGHTON (KPS-1427-PVC) with curved slide, tunnel and side panels. The equipment comprises of 2 numbers of Upright structural posts of height 2.2 m, 4 numbers of Upright structural posts of height 2.4 m, 4 numbers of Upright structural posts of height 2.7 m, 4 numbers of Upright structural posts of height 2.8 m, 2 numbers of Upright structural posts of height 3.0 m and 4 numbers of Upright structural posts of height 4.5 m and 2.2mm thickness of the tubing. 7 numbers of Deck of size 1.14 x 1.14 m, Staircase of size 1.74m x 1.32 m and Impending stairs of size 0.80 m x 0.60 m and 1.05 m x 0.68 m are fabricated from 2mm perforated solid punched steel. Decks are pre pressed, punched, and welded, powder coated to 2.2mm thickness or vinyl plastic coated to a thickness of 4mm. Monkey loop climber 1.87 m x 1.15 m x 0.6 m which has thickness of 48 mm curved bar. Crab Roof of size 2.00 m x 1.78 m, Spiral tube Slide of size 3.2 m x 1.82 m x 2.7 m, Triple Slide of size 3.95 m x 2.93 m x 1.80 m, L - curved Slide of size 1.7 m x 1.8 m x 1.2 m, Double Slide of size 2.3 m x 1.4 m x 1.2 m Panels with color molded in and minimum thickness of 6 - 8mm. The supplier must have carried out in excess of at least 100 public park projects in India either by themselves or through their dealers or contractors. The rates are inclusive of all taxes, transportation charges and installation. ALL COMPONENTS MEET WITH EN-1176 SAFETY STANDARDS. PLAY EQUIPMENT DIMENSIONS: 12.33 m x 7.63 m x 5.69 m.								
			0				0.00		0.00
		Each					**0.00**	**6905711.02**	
53	Providing and fixing of Black Granite Slab board of size 1350 x600x30mm fixed in granite poles of size 150 * 150 * 3000mm. The poles shall be embedded in the ground for a depth of 500mm with 1:1.5:3 ratio cement concrete. The board shall be fixed as per the drawing and at the place indicated by the Engineer in charge of the work. The cost includes excavation, bare cost of all materials, cost of steel, centering, transportation charges, fixing charges, labour, drawings and directions of the Engineer in charge of the work. (Data Rate)								
	For Parks		10				10.00		
		Each					**10.00**	**57499.48**	**574994.83**
54	Supply and fixing of Retro Reflective **Single Arrow** Road Name Signboard of size 1600mm x 900mm made out of retro reflective sheeting conforming to Type XI standards of ASTM D 4956 - 09 & as per IRC 67-2012 for full back ground of blue colour & white letters and fixed over 4 mm thick Aluminium Composite Material sheet having minimum 0.5 mm thick Aluminium skin on both sides with back side painted grey colour and fixed over back support frame SS angle of 15mm x 20mm x 1.2mm, supported by 38mm OD stainless steel pipe all round in 304 grade and 2 nos of vertical posts of 50 mm OD stainless steel pipe of 202 grade firmly fixed to the ground by means of properly designed foundation of size 450mm x 450mm x 600mm in 1:1.5:3 ratio cement concrete. The background shall be blue in color with letters and border in white, the item includes earthwork excavation, cost of all materials, loading, unloading, lead, lift, transportation etc., complete. as per direction of engineer in charge of work clause 6.9 of IRC 67-2012 for Type XI retro reflective sheeting from the sheeting manufacturer & a certified copy of test reports from an independent test laboratory conforming to clause 6.7 of IRC 67-2012 including outdoor weather exposure report for the retro reflective sheeting offered shall be submitted by the contractor for technical qualification in the tender with all lead and lift and completion of the work as per directions of the Engineer-in-charge of the work. (Data Rate)								

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	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	For Parks		10				10.00		397265.78
		Each					**10.00**	**39726.58**	
55	Supply and fixing of Retro Reflective **Double Arrow** road name sign board of size 2000mm x 900mm made out of retro reflective sheeting conforming to Type XI standards of ASTM D 4956 - 09 & as per IRC 67-2012 for full back ground of blue colour & white letters and fixed over 4 mm thick Aluminium Composite Material sheet having minimum 0.5 mm thick Aluminium skin on both sides with back side painted grey colour and fixed over back support frame SS angle of 15mm x 20mm x 1.2mm, supported by 38mm OD stainless steel pipe all round in 304 grade and 2 nos of vertical posts of 50 mm OD stainless steel pipe of 202 grade firmly fixed to the ground by means of properly designed foundation of size 450mm x 450mm x 600mm in 1:1.5:3 ratio cement concrete. The background shall be blue in color with letters and border in white, the item includes earthwork excavation, cost of all materials, loading, unloading, lead, lift, transportation etc., complete. as per clause 6.9 of IRC 67-2012 for Type XI retro reflective sheeting from the sheeting manufacturer & a certified copy of test reports from an independent test laboratory conforming to clause 6.7 of IRC 67-2012 including outdoor weather exposure report for the retro reflective sheeting offered shall be submitted by the contractor for technical qualification in the tender with all lead and lift and completion of the work as per directions of the Engineer-in-charge of the work (Data Rate)								
	For Parks		6				6.00		275995.17
		Each					**6.00**	**45999.20**	
56	SS Dustbin with MS pole 3ft								
	For Parks		0				0.00		0.00
		Each					**0.00**	**18295.18**	
57	Twin Dustbin with MS pole 3ft								
	For Parks		0				0.00		0.00
		Each					**0.00**	**19758.70**	
58	Fibre Dustbin modern type, Monkey Dustbin 3.75 ft								
	For Parks		0				0.00		0.00
		Each					**0.00**	**19027.04**	
59	Fibre Dustbin modern type, Penguin Dustbin 3 ft								
	For Parks		0				0.00		0.00
		Each					**0.00**	**19183.73**	
60	Fibre Dustbin modern type, Hippo Dustbin 3.75 ft								
	For Parks		0				0.00		0.00
		Each					**0.00**	**18974.74**	
61	Fibre Dustbin modern type, Rabit Dustbin 3.75 ft								
	For Parks		0				0.00		0.00
		Each					**0.00**	**18870.64**	
62	Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum. (Tipper 5.5 m3) (V-III Page No.3, Item No.1.1 A of PWD SR 2021-22)								
	Qty frm Item No-1	**Cum**					**2103.72**	**136.00**	**286106.41**
63	**Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km (V-III Page No.3, Item No.1.4 A of PWD SR 2021-22) Lead 8 Km**								
	Qty frm Item No-1			2103.72			2103.72		
		t.Km					**2103.72**	**112.00**	**235617.05**
	Extra Items								

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	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
EI-01	**Providing and Fixing pre cast covering Slab 230mm thick made out of CC , Jelly 20mm Down Size with steel reinforcement including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, complete as per Engineer incharge. (Data Rate)**								
	Gouthama Bhudha park		1	4.80	1.20		5.76		
			1	7.20	1.20		8.64		
		Sqm					14.40	5266.18	75,833.04
EI-02	**Providing and Fixing pre cast covering Slab 100mm thick made out of CC , Jelly 20mm Down Size with steel reinforcement including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, complete as per Engineer incharge. (Data Rate)**								
		Sqm					0.00	2166.28	0.00
EI-03	**Providing and laying of ITF Certified 5 layers of Acrylic synthetic standard system including primer, resurfacer and approved colour and line marking as per international standard including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, complete as per Engineer incharge. (Data Rate) (Data Rate)**								
	Basket ball court in sardar vallabai patel park		1	15.30	27.00		413.10		
		Sqm					413.10	863.00	356505.30
								Total Construction Cost	104416596.12
								18% GST Charges for SR Items	14128051.32
								PMC & DPR 2%	2200000.00
								Sub Total	120744647.43
								Utility Shifting, Miscellaneous, Rounding off	0.00
								GRAND TOTAL	120744647.43

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2021-2022, issue rates and Data Rates.

Assistant Engineer
Project Division, Yelahanka
BBMP Bangalore

Assistant Executive Engineer
Project Division, Yelahanka
BBMP Bangalore

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Executive Engineer
Project Division, Yelahanka
BBMP Bangalore

Executive Engineer
Project Division
Yelahanka
BBMP, Bangalore - 92

Technical Sanction
Accorded For Rs 120744,647.43
Head of A/C P.3822
CER NO : 63 Dt: 13 03 2023

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